HSI PLUS Series

Hybrid Solar Inverter

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1000W - 1200W

12V / 24V

Pure Sine Wave Out
≥85% Efficiency
Lithium Battery Supported
Intelligent Charging Management
Multi-layer Protection



The HSI-PLUS Series is a professional low-frequency toroidal transformer inverter charger for backup, off-grid, and energy storage systems. It features pure sine wave output (1000W–1200W rated, 3000W–3600W surge power), ≤5ms UPS transfer, built-in AVR stabilizer, and ≥85% transfer efficiency. It includes an adjustable AC charger (up to 15A) compatible with lead-acid and lithium batteries, integrated MPPT solar controller, and RS485 communication.

FEATURES

- Rated power 1000W-1200W.
- Pure sine wave AC output.
- Clear display for real-time system monitoring.
- Multi-layer Protection for Comprehensive Safety.
- High efficiency, low loss, long-term reliability.
- Compatible with LiFePO4 batteries.
- WiFi remote monitoring (optional).

PRODUCT CONNECTION DIAGRAM



Model	HSI-PLUS-102	HSI-PLUS-122
Rated Power	1000W	1200W
Surge Power	3000W	3600W
AC Input & Output		
Voltage	220VAC	
Selectable Voltage Range	165-275VAC	
Frequency Range	50Hz/60Hz automatic recognition	
AC Voltage Regulation (BATT. Mode)	(DC Batt.mode)220vac±3%	
Transfer Time	≤5ms	
Wave Form	Pure Sine Wave	
Transformer Type	Toroidal	
Transfer Efficiency	≥85%	
Battery		
Battery Voltage	12V/24V	
Type	Gel/SLA/AGM/Water/Lithium(lifepo4) Battery	
DC Charge Voltage	12~16VDC(12V)/24~32VDC(24V)	
Overcharge Protection	Battery voltage ≥16VDC (12V) ≥32VDC (24V), stop charging after 60s alarm	
Solar Charge & Ac Charger		
Maximum PV Array Open Circuit Voltage	Max. 100V	
Maximum PV Array Power	450W(12V)/900W(24V)	600W(12V)/1200W(24V)
Maximum AC Charge Current	15A	
Maximum Solar Charge Current	30A MPPT	40A MPPT
Maximum Charging Current	45A	55A
Working mode		
01 Mode	AC mains priority	
02 Mode	ECO mode	
03 Mode	DC battery priority	
04 Mode	Unattended mode	
05 Mode	Generator mode	
Communication Portal		
Type	RS485, available for wifi box & external control screen	
Physical		
Dimension, D*W*H(MM)	460*339*210	
G.W.(KGS)	11	
Environment		
Humidity	0~95% (NO Condensation)	
Operating Temperature	0~55℃	
Storage Temperature	0~55℃	